Maya Topf

List of Publications by Year in descending order

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Μάνα Τορε

#	Article	IF	CITATIONS
1	Critical assessment of methods of protein structure prediction (CASP)—Round XIII. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1011-1020.	2.6	380
2	Protein Structure Fitting and Refinement Guided by Cryo-EM Density. Structure, 2008, 16, 295-307.	3.3	334
3	Critical assessment of methods of protein structure prediction (CASP)—Round <scp>XIV</scp> . Proteins: Structure, Function and Bioinformatics, 2021, 89, 1607-1617.	2.6	281
4	A structural perspective on protein–protein interactions. Current Opinion in Structural Biology, 2004, 14, 313-324.	5.7	260
5	Integrating Diverse Data for Structure Determination of Macromolecular Assemblies. Annual Review of Biochemistry, 2008, 77, 443-477.	11.1	204
6	Mosaic RAS/MAPK variants cause sporadic vascular malformations which respond to targeted therapy. Journal of Clinical Investigation, 2018, 128, 1496-1508.	8.2	191
7	The genetics of hyperekplexia: more than startle!. Trends in Genetics, 2008, 24, 439-447.	6.7	187
8	Mutations in the histone methyltransferase gene KMT2B cause complex early-onset dystonia. Nature Genetics, 2017, 49, 223-237.	21.4	186
9	TUBA1A mutations cause wide spectrum lissencephaly (smooth brain) and suggest that multiple neuronal migration pathways converge on alpha tubulins. Human Molecular Genetics, 2010, 19, 2817-2827.	2.9	176
10	ATP-Triggered Conformational Changes Delineate Substrate-Binding and -Folding Mechanics of the GroEL Chaperonin. Cell, 2012, 149, 113-123.	28.9	160
11	Mutations in SLC12A5 in epilepsy of infancy with migrating focal seizures. Nature Communications, 2015, 6, 8038.	12.8	160
12	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. Structure, 2015, 23, 1156-1167.	3.3	159
13	Stepwise visualization of membrane pore formation by suilysin, a bacterial cholesterol-dependent cytolysin. ELife, 2014, 3, e04247.	6.0	145
14	Comprehensive Molecular Structure of the Eukaryotic Ribosome. Structure, 2009, 17, 1591-1604.	3.3	140
15	Structure of the Mammalian 80S Ribosome at 8.7 Ã Resolution. Structure, 2008, 16, 535-548.	3.3	135
16	Structure of an Apoptosome-Procaspase-9 CARD Complex. Structure, 2010, 18, 571-583.	3.3	118
17	Inferential Optimization for Simultaneous Fitting of Multiple Components into a CryoEM Map of Their Assembly. Journal of Molecular Biology, 2009, 388, 180-194.	4.2	117
18	Conformational Changes during Pore Formation by the Perforin-Related Protein Pleurotolysin. PLoS Biology, 2015, 13, e1002049.	5.6	114

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19	Structural pathway of regulated substrate transfer and threading through an Hsp100 disaggregase. Science Advances, 2017, 3, e1701726.	10.3	112
20	Mechanism of eIF6-mediated Inhibition of Ribosomal Subunit Joining. Journal of Biological Chemistry, 2010, 285, 14848-14851.	3.4	107
21	Subnanometer-resolution electron cryomicroscopy-based domain models for the cytoplasmic region of skeletal muscle RyR channel. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9610-9615.	7.1	106
22	Refinement of Protein Structures by Iterative Comparative Modeling and CryoEM Density Fitting. Journal of Molecular Biology, 2006, 357, 1655-1668.	4.2	104
23	Refinement of atomic models in high resolution EM reconstructions using Flex-EM and local assessment. Methods, 2016, 100, 42-49.	3.8	101
24	Conserved mechanisms of microtubule-stimulated ADP release, ATP binding, and force generation in transport kinesins. ELife, 2014, 3, e03680.	6.0	100
25	PREDICT modeling and in-silico screening for G-protein coupled receptors. Proteins: Structure, Function and Bioinformatics, 2004, 57, 51-86.	2.6	99
26	Two distinct trimeric conformations of natively membrane-anchored full-length herpes simplex virus 1 glycoprotein B. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4176-4181.	7.1	93
27	Structural characterization of components of protein assemblies by comparative modeling and electron cryo-microscopy. Journal of Structural Biology, 2005, 149, 191-203.	2.8	92
28	Mechanism of lid closure in the eukaryotic chaperonin TRiC/CCT. Nature Structural and Molecular Biology, 2008, 15, 746-753.	8.2	91
29	Crystal Structure of Carbapenem Synthase (CarC). Journal of Biological Chemistry, 2003, 278, 20843-20850.	3.4	90
30	Clinical and molecular characterization of <i>KCNT1</i> -related severe early-onset epilepsy. Neurology, 2018, 90, e55-e66.	1.1	89
31	A structural model for microtubule minus-end recognition and protection by CAMSAP proteins. Nature Structural and Molecular Biology, 2017, 24, 931-943.	8.2	86
32	Genetic and functional analyses demonstrate a role for abnormal glycinergic signaling in autism. Molecular Psychiatry, 2016, 21, 936-945.	7.9	85
33	Mutations in the GlyT2 Gene (SLC6A5) Are a Second Major Cause of Startle Disease. Journal of Biological Chemistry, 2012, 287, 28975-28985.	3.4	84
34	Collaborative Computational Project for Electron cryo-Microscopy. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 123-126.	2.5	84
35	CryoEM reveals how the complement membrane attack complex ruptures lipid bilayers. Nature Communications, 2018, 9, 5316.	12.8	83
36	Ab Initio QM/MM Dynamics Simulation of the Tetrahedral Intermediate of Serine Proteases:Â Insights into the Active Site Hydrogen-Bonding Network. Journal of the American Chemical Society, 2002, 124, 14780-14788.	13.7	81

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37	The Importance of Non-accessible Crosslinks and Solvent Accessible Surface Distance in Modeling Proteins with Restraints From Crosslinking Mass Spectrometry. Molecular and Cellular Proteomics, 2016, 15, 2491-2500.	3.8	79
38	<i>TEMPy</i> : a Python library for assessment of three-dimensional electron microscopy density fits. Journal of Applied Crystallography, 2015, 48, 1314-1323.	4.5	75
39	Combining electron microscopy and comparative protein structure modeling. Current Opinion in Structural Biology, 2005, 15, 578-585.	5.7	73
40	Structure of the Drosophila Apoptosome at 6.9ÂÃ Resolution. Structure, 2011, 19, 128-140.	3.3	73
41	RNA channelling by the eukaryotic exosome. EMBO Reports, 2010, 11, 936-942.	4.5	68
42	Modeling the 3D structure of GPCRs from sequence. Medicinal Research Reviews, 2001, 21, 472-483.	10.5	67
43	A new tRNA intermediate revealed on the ribosome during EF4-mediated back-translocation. Nature Structural and Molecular Biology, 2008, 15, 910-915.	8.2	65
44	Scoring functions for cryoEM density fitting. Journal of Structural Biology, 2011, 174, 333-343.	2.8	65
45	Disease-associated missense mutations in GluN2B subunit alter NMDA receptor ligand binding and ion channel properties. Nature Communications, 2018, 9, 957.	12.8	58
46	<i>KMT2B</i> -related disorders: expansion of the phenotypic spectrum and long-term efficacy of deep brain stimulation. Brain, 2020, 143, 3242-3261.	7.6	57
47	Improved metrics for comparing structures of macromolecular assemblies determined by 3D electron-microscopy. Journal of Structural Biology, 2017, 199, 12-26.	2.8	56
48	Frequency and phenotypic spectrum of <i>KMT2B</i> dystonia in childhood: A singleâ€eenter cohort study. Movement Disorders, 2019, 34, 1516-1527.	3.9	55
49	Theoretical Studies on the Deacylation Step of Serine Protease Catalysis in the Gas Phase, in Solution, and in Elastase. Journal of the American Chemical Society, 2004, 126, 14631-14641.	13.7	54
50	Novel missense mutations in the glycine receptor β subunit gene (GLRB) in startle disease. Neurobiology of Disease, 2013, 52, 137-149.	4.4	54
51	Changes in Apaf-1 Conformation That Drive Apoptosome Assembly. Biochemistry, 2013, 52, 2319-2327.	2.5	53
52	Modelling structures in cryo-EM maps. Current Opinion in Structural Biology, 2019, 58, 105-114.	5.7	53
53	Modeling Protein Complexes Using Restraints from Crosslinking Mass Spectrometry. Structure, 2018, 26, 1015-1024.e2.	3.3	50
54	The prefusion structure of herpes simplex virus glycoprotein B. Science Advances, 2020, 6, .	10.3	50

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55	Structural basis of human kinesin-8 function and inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9539-E9548.	7.1	48
56	The Structure of Herpesvirus Fusion Glycoprotein B-Bilayer Complex Reveals the Protein-Membrane and Lateral Protein-Protein Interaction. Structure, 2013, 21, 1396-1405.	3.3	47
57	A Novel Dominant Hyperekplexia Mutation Y705C Alters Trafficking and Biochemical Properties of the Presynaptic Glycine Transporter GlyT2. Journal of Biological Chemistry, 2012, 287, 28986-29002.	3.4	42
58	Structural Analysis of Coxsackievirus A7 Reveals Conformational Changes Associated with Uncoating. Journal of Virology, 2012, 86, 7207-7215.	3.4	41
59	The Role of Disulfide Bond Replacements in Analogues of the Tarantula Toxin ProTx-II and Their Effects on Inhibition of the Voltage-Gated Sodium Ion Channel Na _v 1.7. Journal of the American Chemical Society, 2017, 139, 13063-13075.	13.7	41
60	Structure of a translocation signal domain mediating conjugative transfer by type <scp>IV</scp> secretion systems. Molecular Microbiology, 2013, 89, 324-333.	2.5	40
61	Diversity of Nicotinic Acetylcholine Receptor Positive Allosteric Modulators Revealed by Mutagenesis and a Revised Structural Model. Molecular Pharmacology, 2018, 93, 128-140.	2.3	39
62	The divergent mitotic kinesin MKLP2 exhibits atypical structure and mechanochemistry. ELife, 2017, 6, .	6.0	39
63	Crystallographic Conformers of Actin in a Biologically Active Bundle of Filaments. Journal of Molecular Biology, 2008, 375, 331-336.	4.2	37
64	Computational models in the service of Xâ€ray and <scp>cryoâ€</scp> electron microscopy structure determination. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1633-1646.	2.6	37
65	Exploring the spatial and temporal organization of a cell's proteome. Journal of Structural Biology, 2011, 173, 483-496.	2.8	36
66	γ-TEMPy: Simultaneous Fitting of Components in 3D-EM Maps of Their Assembly Using a Genetic Algorithm. Structure, 2015, 23, 2365-2376.	3.3	34
67	Mapping a molecular link between allosteric inhibition and activation of the glycine receptor. Nature Structural and Molecular Biology, 2008, 15, 1084-1093.	8.2	33
68	Finding rigid bodies in protein structures: Application to flexible fitting into cryoEM maps. Journal of Structural Biology, 2012, 177, 520-531.	2.8	33
69	Distinct phenotypes in zebrafish models of human startle disease. Neurobiology of Disease, 2013, 60, 139-151.	4.4	32
70	<i>TEMPy</i> 2: a Python library with improved 3D electron microscopy density-fitting and validation workflows. Acta Crystallographica Section D: Structural Biology, 2021, 77, 41-47.	2.3	32
71	Conformational States of Macromolecular Assemblies Explored by Integrative Structure Calculation. Structure, 2013, 21, 1500-1508.	3.3	29
72	Comparing Cryo-EM Reconstructions and Validating Atomic Model Fit Using Difference Maps. Journal of Chemical Information and Modeling, 2020, 60, 2552-2560.	5.4	29

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73	The Unusual Bifunctional Catalysis of Epimerization and Desaturation by Carbapenem Synthase. Journal of the American Chemical Society, 2004, 126, 9932-9933.	13.7	29
74	Target highlights in <scp>CASP14</scp> : Analysis of models by structure providers. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1647-1672.	2.6	27
75	Molecular dynamics simulations of the acyl-enzyme and the tetrahedral intermediate in the deacylation step of serine proteases. Proteins: Structure, Function and Bioinformatics, 2002, 47, 357-369.	2.6	23
76	Combined approaches to flexible fitting and assessment in virus capsids undergoing conformational change. Journal of Structural Biology, 2014, 185, 427-439.	2.8	23
77	Novel Missense Mutation A789V in IQSEC2 Underlies X-Linked Intellectual Disability in the MRX78 Family. Frontiers in Molecular Neuroscience, 2015, 8, 85.	2.9	23
78	Jwalk and MNXL web server: model validation using restraints from crosslinking mass spectrometry. Bioinformatics, 2018, 34, 3584-3585.	4.1	23
79	TopoStats – A program for automated tracing of biomolecules from AFM images. Methods, 2021, 193, 68-79.	3.8	23
80	Photo-antagonism of the GABAA receptor. Nature Communications, 2014, 5, 4454.	12.8	22
81	Structure of Microtubule-Trapped Human Kinesin-5 and Its Mechanism of Inhibition Revealed Using Cryoelectron Microscopy. Structure, 2020, 28, 450-457.e5.	3.3	22
82	Genetic diversity of CHC22 clathrin impacts its function in glucose metabolism. ELife, 2019, 8, .	6.0	22
83	A fast mathematical programming procedure for simultaneous fitting of assembly components into cryoEM density maps. Bioinformatics, 2010, 26, i261-i268.	4.1	21
84	Cryoâ€electron microscopy targets in CASP13: Overview and evaluation of results. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1128-1140.	2.6	21
85	Structural transitions during the scaffolding-driven assembly of a viral capsid. Nature Communications, 2019, 10, 4840.	12.8	21
86	Assessment of protein–protein interfaces in cryo-EM derived assemblies. Nature Communications, 2021, 12, 3399.	12.8	20
87	RIBFIND: a web server for identifying rigid bodies in protein structures and to aid flexible fitting into cryo EM maps. Bioinformatics, 2012, 28, 2391-2393.	4.1	19
88	Protein interactions and consensus clustering analysis uncover insights into herpesvirus virion structure and function relationships. PLoS Biology, 2019, 17, e3000316.	5.6	18
89	Allosteric signalling in the outer membrane translocation domain of PapC usher. ELife, 2014, 3, .	6.0	18
90	HVint: A Strategy for Identifying Novel Protein-Protein Interactions in Herpes Simplex Virus Type 1. Molecular and Cellular Proteomics, 2016, 15, 2939-2953.	3.8	17

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91	Combining Information from Crosslinks and Monolinks in the Modeling of Protein Structures. Structure, 2020, 28, 1061-1070.e3.	3.3	17
92	Integrative modelling of cellular assemblies. Current Opinion in Structural Biology, 2017, 46, 102-109.	5.7	15
93	Disruption of a Structurally Important Extracellular Element in the Glycine Receptor Leads to Decreased Synaptic Integration and Signaling Resulting in Severe Startle Disease. Journal of Neuroscience, 2017, 37, 7948-7961.	3.6	15
94	Identification by virtual screening and functional characterisation of novel positive and negative allosteric modulators of the α7 nicotinic acetylcholine receptor. Neuropharmacology, 2018, 139, 194-204.	4.1	14
95	Quantum mechanical/molecular mechanical study of three stationary points along the deacylation step of the catalytic mechanism of elastase. Theoretical Chemistry Accounts, 2001, 106, 146-151.	1.4	13
96	Exome sequencing identifies variants in FKBP4 that are associated with recurrent fetal loss in humans. Human Molecular Genetics, 2019, 28, 3466-3474.	2.9	13
97	Cryo-EM structure of a microtubule-bound parasite kinesin motor and implications for its mechanism and inhibition. Journal of Biological Chemistry, 2021, 297, 101063.	3.4	13
98	Target highlights in CASP13: Experimental target structures through the eyes of their authors. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1037-1057.	2.6	12
99	<scp>Cryoâ€EM</scp> targets in <scp>CASP14</scp> . Proteins: Structure, Function and Bioinformatics, 2021, 89, 1949-1958.	2.6	11
100	The pore conformation of lymphocyte perforin. Science Advances, 2022, 8, eabk3147.	10.3	10
101	Identification of congenital muscular dystonia 2 associated with an inherited GlyT2 defect in Belgian Blue cattle from the United Kingdom. Animal Genetics, 2012, 43, 267-270.	1.7	8
102	CHOYCE: a web server for constrained homology modelling with cryoEM maps. Bioinformatics, 2010, 26, 1673-1674.	4.1	7
103	Molecular mechanisms of glycine transporter GlyT2 mutations in startle disease. Biological Chemistry, 2012, 393, 283-289.	2.5	7
104	Analyses of Tissue Culture Adaptation of Human Herpesvirus-6A by Whole Genome Deep Sequencing Redefines the Reference Sequence and Identifies Virus Entry Complex Changes. Viruses, 2018, 10, 16.	3.3	7
105	Conserved Central Intraviral Protein Interactome of the <i>Herpesviridae</i> Family. MSystems, 2019, 4, .	3.8	4
106	Stoichiometry-Selective Antagonism of α4β2 Nicotinic Acetylcholine Receptors by Fluoroquinolone Antibiotics. ACS Chemical Neuroscience, 2022, 13, 1805-1817.	3.5	3
107	Mapping Aldehyde Dehydrogenase 1A1 Activity using an [¹⁸ F]Substrateâ€Based Approach. Chemistry - A European Journal, 2019, 25, 2345-2351.	3.3	2
108	Automated Modeling and Validation of Protein Complexes in Cryo-EM Maps. Methods in Molecular Biology, 2021, 2215, 189-223.	0.9	2

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109	Unravelling the Mechanism of Membrane Attack Complex Pore Closure. Biophysical Journal, 2017, 112, 335a.	0.5	0
110	Structural Model for Preferential Microtubule Minus End Binding by CAMSAP CKK Domains. Biophysical Journal, 2018, 114, 507a-508a.	0.5	0
111	Modeling Protein Monomers and Complexes using Restraints from Crosslinking Mass Spectrometry. Biophysical Journal, 2019, 116, 330a.	0.5	0
112	The Cryo-EM Structure and Activity of Kinesin-5 from Plasmodium falciparum: Mechanistic Lessons from a Parasite Kinesin. Biophysical Journal, 2019, 116, 308a.	0.5	0
113	Cover Image, Volume 87, Issue 12. Proteins: Structure, Function and Bioinformatics, 2019, 87, C4.	2.6	0
114	Combining Information from Crosslinks and Monolinks in the Modelling of Protein Structures. SSRN Electronic Journal, 0, , .	0.4	0
115	Structural mass spectrometry decodes domain interaction and dynamics of the full-length Human Histone Deacetylase 2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140759.	2.3	0